




<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>COASTAL TECH</b> Coastal Geology & Sediments Laboratory  1333 Gateway Dr., Suite 1004 Melbourne, FL 32901 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: Bonita Beach							
Sample Name: C-12 #1							
Analysis Date: 03-21-12							
Analyzed By: WD							
Easting (ft): <div style="text-align: center;">685,892.1</div>		Northing (ft): <div style="text-align: center;">753,340.8</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-10.7 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: Wet - 5Y-6/2 Dry - 5Y-7/2		Comments:			
Dry Weight (g): <div style="text-align: center;">169.69</div>	Wash Weight (g): <div style="text-align: center;">165.15</div>	Pan Retained (g): <div style="text-align: center;">0.21</div>	Sieve Loss (%): <div style="text-align: center;">0.08</div>	Fines (%): #200 - 3.16 #230 - 2.88	Organics (%): <div style="text-align: center;">0.80</div>	Carbonates (%): <div style="text-align: center;">13.80</div>	Shells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	2.22	1.31	2.22	1.31	
7/16"	-3.50	11.31	2.58	1.52	4.80	2.83	
5/16"	-3.00	8.00	0.88	0.52	5.68	3.35	
3.5	-2.50	5.66	0.00	0.00	5.68	3.35	
4	-2.25	4.76	0.08	0.05	5.76	3.40	
5	-2.00	4.00	0.77	0.45	6.53	3.85	
7	-1.50	2.83	1.11	0.65	7.64	4.50	
10	-1.00	2.00	1.38	0.81	9.02	5.31	
14	-0.50	1.41	2.84	1.67	11.86	6.98	
18	0.00	1.00	3.11	1.83	14.97	8.81	
25	0.50	0.71	2.80	1.65	17.77	10.46	
35	1.00	0.50	2.65	1.56	20.42	12.02	
45	1.50	0.35	2.54	1.50	22.96	13.52	
60	2.00	0.25	4.77	2.81	27.73	16.33	
80	2.50	0.18	19.36	11.41	47.09	27.74	
120	3.00	0.13	91.12	53.70	138.21	81.44	
170	3.50	0.09	23.47	13.83	161.68	95.27	
200	3.75	0.07	2.66	1.57	164.34	96.84	
230	4.00	0.06	0.47	0.28	164.81	97.12	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.49	3.09	2.94	2.71	2.38	1.94	-1.19	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.22	0.21	1.52	-2.72	10.2		

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Project Name: Bonita Beach							
Sample Name: C-12 #2							
Analysis Date: 03-21-12							
Analyzed By: WD							
Easting (ft): <div style="text-align: center;">685,892.1</div>		Northing (ft): <div style="text-align: center;">753,340.8</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-14.7 NAVD 88</div>	
USCS: <b>SW-SM W/ GRAVEL</b>		Munsell: Wet - 5Y-5/1 Dry - 5Y-7/1		Comments:			
Dry Weight (g): <div style="text-align: center;">152.86</div>	Wash Weight (g): <div style="text-align: center;">145.04</div>	Pan Retained (g): <div style="text-align: center;">0.26</div>	Sieve Loss (%): <div style="text-align: center;">0.05</div>	Fines (%): #200 - 5.72 #230 - 5.33	Organics (%): <div style="text-align: center;">2.00</div>	Carbonates (%): <div style="text-align: center;">65.50</div>	Shells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	15.82	10.35	15.82	10.35	
5/8"	-4.00	16.00	4.66	3.05	20.48	13.40	
7/16"	-3.50	11.31	3.22	2.11	23.70	15.51	
5/16"	-3.00	8.00	6.41	4.19	30.11	19.70	
3.5	-2.50	5.66	8.88	5.81	38.99	25.51	
4	-2.25	4.76	4.77	3.12	43.76	28.63	
5	-2.00	4.00	5.02	3.28	48.78	31.91	
7	-1.50	2.83	10.52	6.88	59.30	38.79	
10	-1.00	2.00	13.22	8.65	72.52	47.44	
14	-0.50	1.41	13.37	8.75	85.89	56.19	
18	0.00	1.00	9.81	6.42	95.70	62.61	
25	0.50	0.71	5.35	3.50	101.05	66.11	
35	1.00	0.50	2.79	1.83	103.84	67.94	
45	1.50	0.35	1.87	1.22	105.71	69.16	
60	2.00	0.25	2.37	1.55	108.08	70.71	
80	2.50	0.18	4.22	2.76	112.30	73.47	
120	3.00	0.13	17.57	11.49	129.87	84.96	
170	3.50	0.09	12.40	8.11	142.27	93.07	
200	3.75	0.07	1.85	1.21	144.12	94.28	
230	4.00	0.06	0.59	0.39	144.71	94.67	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	2.96	2.57	-0.85	-2.54	-3.44		
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	-0.68	1.60	2.23	0.81	2.28		

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Project Name: Bonita Beach							
Sample Name: C-12 #3							
Analysis Date: 03-21-12							
Analyzed By: WD							
Easting (ft): <div style="text-align: center;">685,892.1</div>		Northing (ft): <div style="text-align: center;">753,340.8</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-16.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SW-SM</div>		Munsell: <div style="text-align: center;">Wet - 5Y-5/1 Dry - 5Y-7/1</div>		Comments:			
Dry Weight (g): <div style="text-align: center;">180.77</div>	Wash Weight (g): <div style="text-align: center;">168.06</div>	Pan Retained (g): <div style="text-align: center;">1.07</div>	Sieve Loss (%): <div style="text-align: center;">0.06</div>	Fines (%): #200 - 9.34 #230 - 7.67	Organics (%): <div style="text-align: center;">1.20</div>	Carbonates (%): <div style="text-align: center;">8.70</div>	Shells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	2.03	1.12	2.03	1.12	
5/16"	-3.00	8.00	0.47	0.26	2.50	1.38	
3.5	-2.50	5.66	0.59	0.33	3.09	1.71	
4	-2.25	4.76	0.52	0.29	3.61	2.00	
5	-2.00	4.00	0.89	0.49	4.50	2.49	
7	-1.50	2.83	1.18	0.65	5.68	3.14	
10	-1.00	2.00	1.94	1.07	7.62	4.21	
14	-0.50	1.41	2.96	1.64	10.58	5.85	
18	0.00	1.00	1.97	1.09	12.55	6.94	
25	0.50	0.71	1.16	0.64	13.71	7.58	
35	1.00	0.50	1.18	0.65	14.89	8.23	
45	1.50	0.35	0.96	0.53	15.85	8.76	
60	2.00	0.25	1.17	0.65	17.02	9.41	
80	2.50	0.18	2.54	1.41	19.56	10.82	
120	3.00	0.13	55.93	30.94	75.49	41.76	
170	3.50	0.09	75.03	41.51	150.52	83.27	
200	3.75	0.07	13.36	7.39	163.88	90.66	
230	4.00	0.06	3.01	1.67	166.89	92.33	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.52	3.40	3.10	2.73	2.58	-0.76	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.68	0.16	1.37	-3.01	11.86		